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GE Power Systems

Turbine Optimizer SM

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Unit Profile

Choose a Site: MY STATION

Choose a Unit: 006 -- MY7FAGT

GO

Unit / Outage Information Correct any deficiencies in the data below - click update to effect your changes

Next Outage Dates	MM DD YY	MY CUSTOMER	Site ID	MY STATION
MAJOR	02 02 2001	Unit #	Serial #	MY7FAGT
HOT GAS PATH		Output (kW)	Heat Rate Btu/kWh	9777 kD Connected
COMBUSTION		Availability (%)	Reliability (%)	0.0 Source 05/04
Operational Cycle	Combined Cycle	Op Hours	Unit Starts	147
Loading Cycle	Mid-Range	COG	Shipped Date	08/01/1992
Fuel Type	Liquid Natural Gas	Reading Date	Frame Size	071FA
Emission Control	Dry Low Nox 2.0	Unit Type	Control Type	

Notes on Fleet Performance comparison figures (OUTPUT HEATRATE, AVAILABILITY, and RELIABILITY)

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Identify inaccuracies or missing information

Fig 1

107

105 -
106 -

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108 111

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100 102

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200

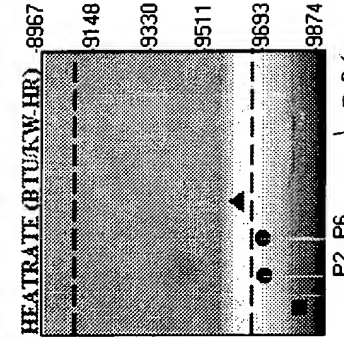
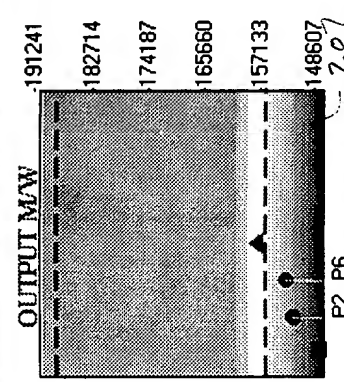
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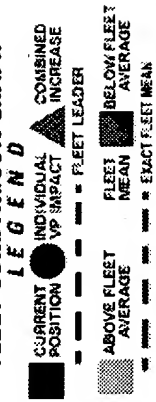
Choose a Site: MY STATION | Choose a Unit: MY7FAGT | **GO**

Turbine Optimizer Results are Based on the Following Criteria

Electricity Price: 0 | Fuel Cost: 3 | Annual Op. Hrs: 8000 | Cost of Capital (%): 15 | Tax Rate (%): 40 | **Update**



FLEET COMPARISON GRAPH



Availability/Reliability

Notes on Fleet Performance comparison figures

View/Impact	Quote	GE Reference Number	Value Package Name	Lead Time (Weeks)	Output (%)	Heat Rate (%)	Estimate of Annual Revenue US\$	Present Net Value US\$	Estimate of Years Payback
P1	<input type="checkbox"/>	EM17A1FA	Full Optima Turbine Optimizer I	52	4.24	-1.30	\$2,222,450	\$4,680,000	6.6
P2	<input checked="" type="checkbox"/>	EM17A1FA	Stage 1 Turbine Optimizer Package I	32	2.18	-1.02	\$1,162,540	\$3,220,000	6.6
P3	<input type="checkbox"/>	EM17A1FA	Stage 1 Turbine Optimizer Package IV	32	0.97	-0.47	\$524,391	\$1,410,000	1.0
P4	<input type="checkbox"/>	EM17A1FA	Stage 1 Turbine Optimizer Package III	32	1.64	-0.97	\$951,262	\$2,520,000	6.6
P5	<input type="checkbox"/>	EM17A1FA	Stage 1 Turbine Optimizer Package II	26	1.19	-0.43	\$702,468	\$1,880,000	6.6
P6	<input checked="" type="checkbox"/>	EM17A1FA	Stage 2 and 3 Turbine Optimizer Package I	36	2.97	-1.10	\$1,492,780	\$4,580,000	9.4
P7	<input type="checkbox"/>	EM17A1FA	Stage 2 and 3 Turbine Optimizer Package II	36	2.89	-1.1	\$1,426,770	\$4,000,000	9.4

Fig 2

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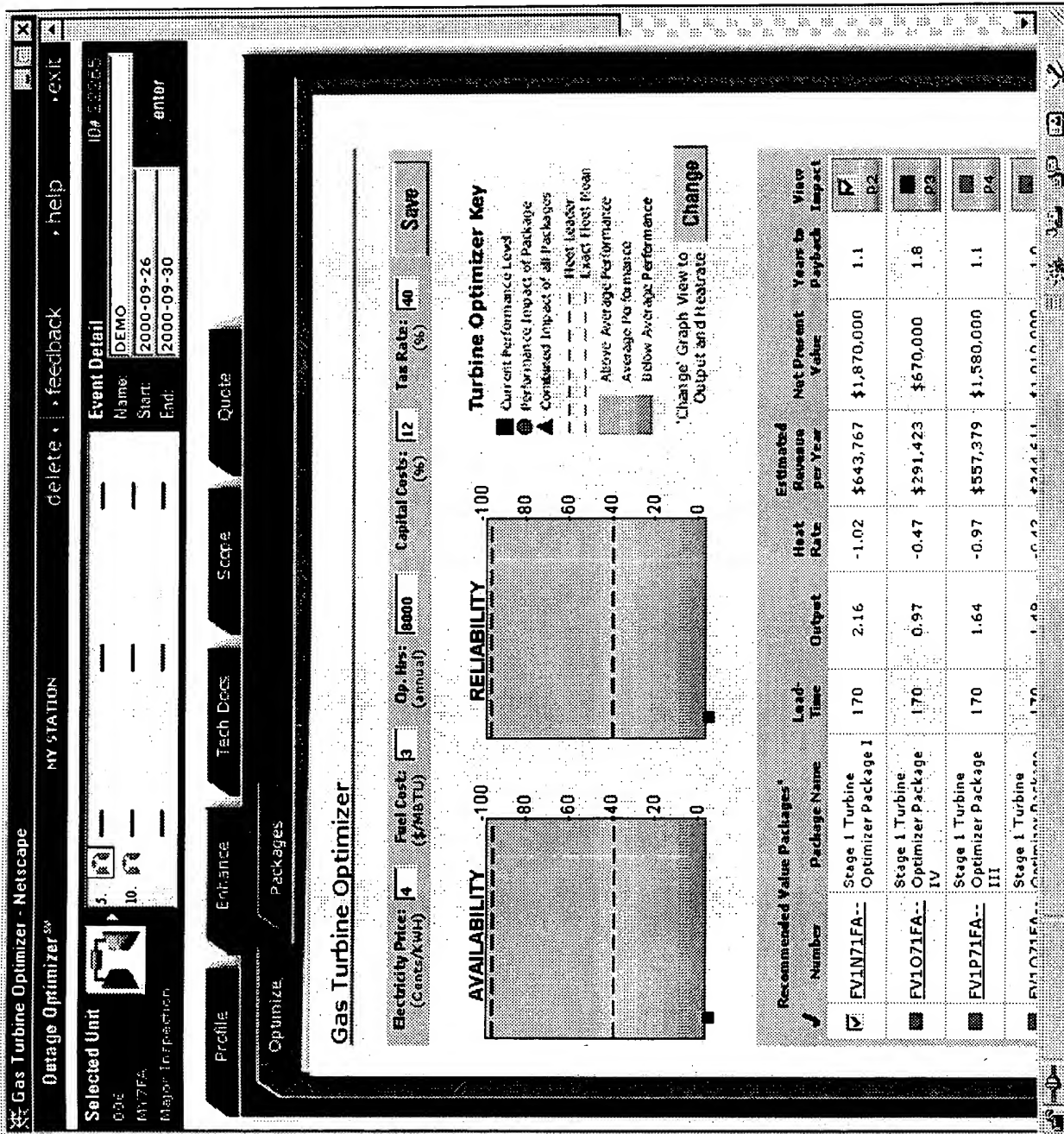
00/222T" E0E6H250

Update Performance
Impact Matrix

Customer Name	SN	Current Rating	Sig1	S1B, S1S	S1N, S1S	S1B, S1N	88 IGV	CDC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Sig2, Sig3	Performance impact (parts only)
ACME TI=2420, IGV=90	297031	Output	0.64	0.31	0.70	0.13	0.00	0.00	0.08	-0.03	0.09	0.59	1.30
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77
Smith TI=2420	297112	Output	0.54	0.21	0.70	0.03	0.00	0.00	0.08	-0.03	0.09	0.59	1.20
		HR	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77

Sum Parts+ TI	Cycle Deck Run	FV1B	FV1P	FV1T	FV1U	FV1V	FV1W	FV1N	FV1O	FV1Q	FV4B	FV4P	FV4T	FV4U	FV4V	FV4W	FV4N	FV4O	FV4Q
0 1.3		1.3	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 1.3		1.2	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77		-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Fig 3



His

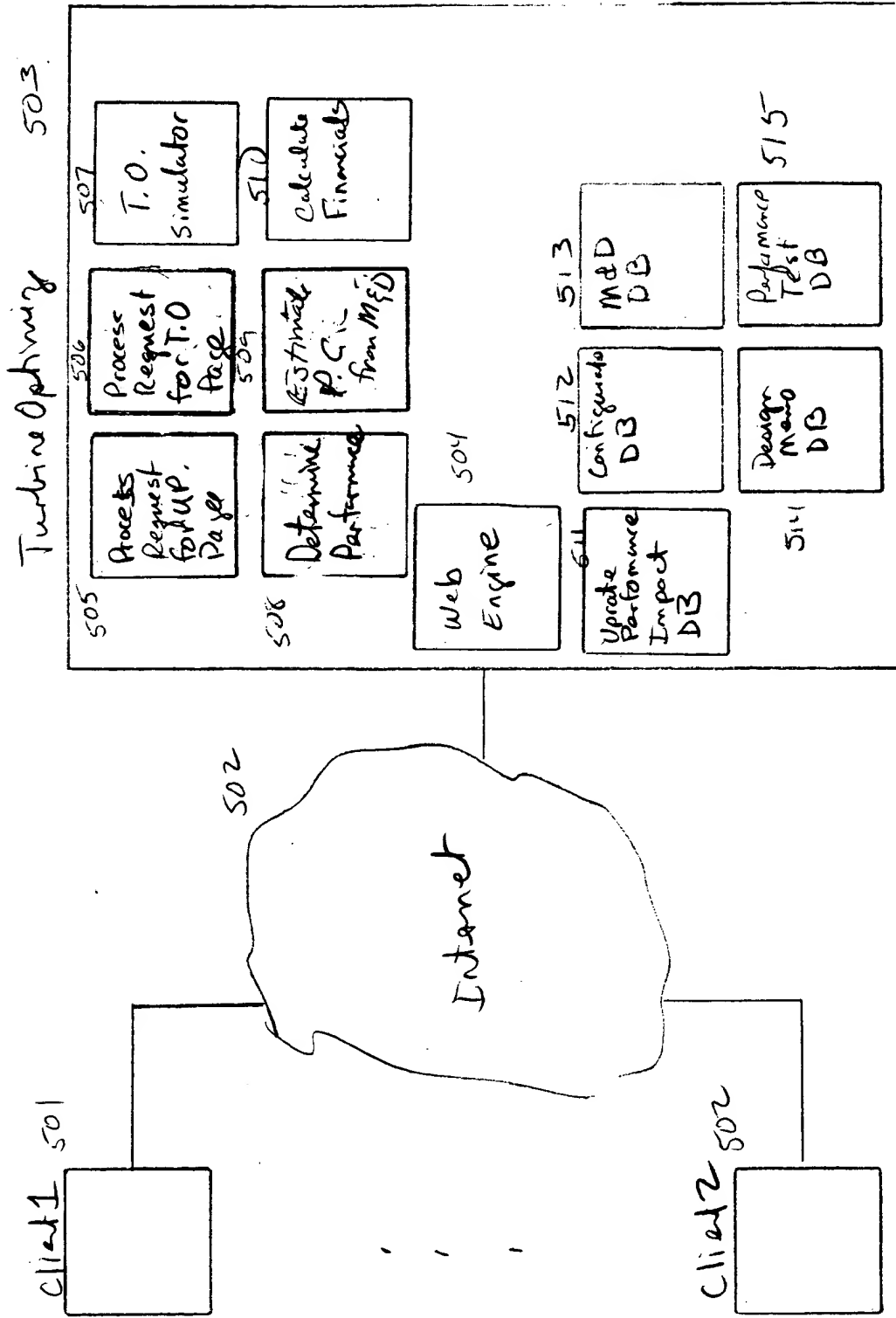


Fig 5

00/222T" EOE 64/250

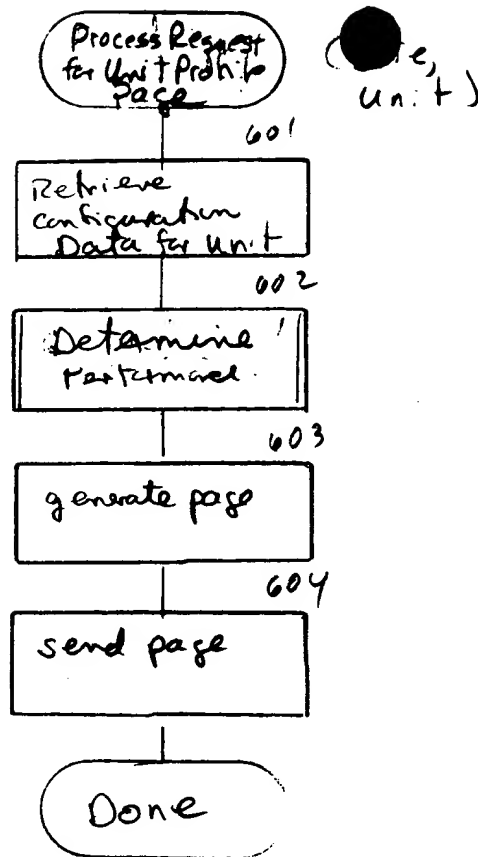
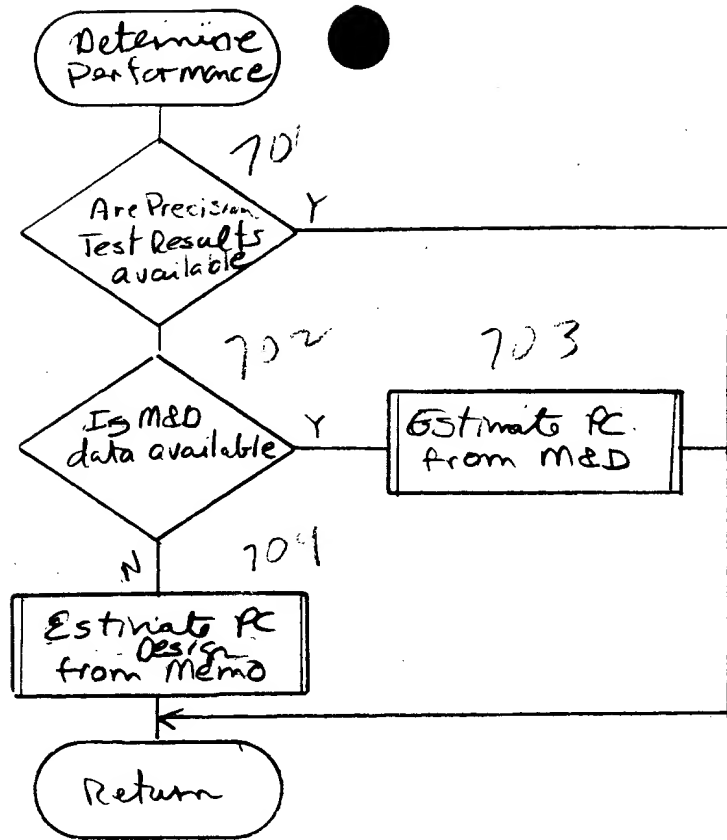


Fig 6

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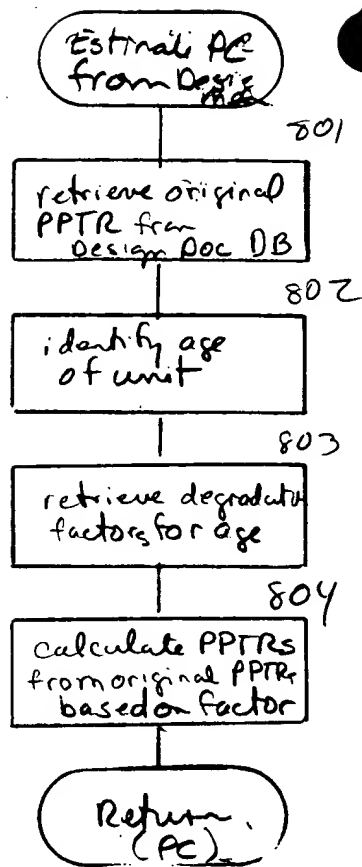


Fig 8

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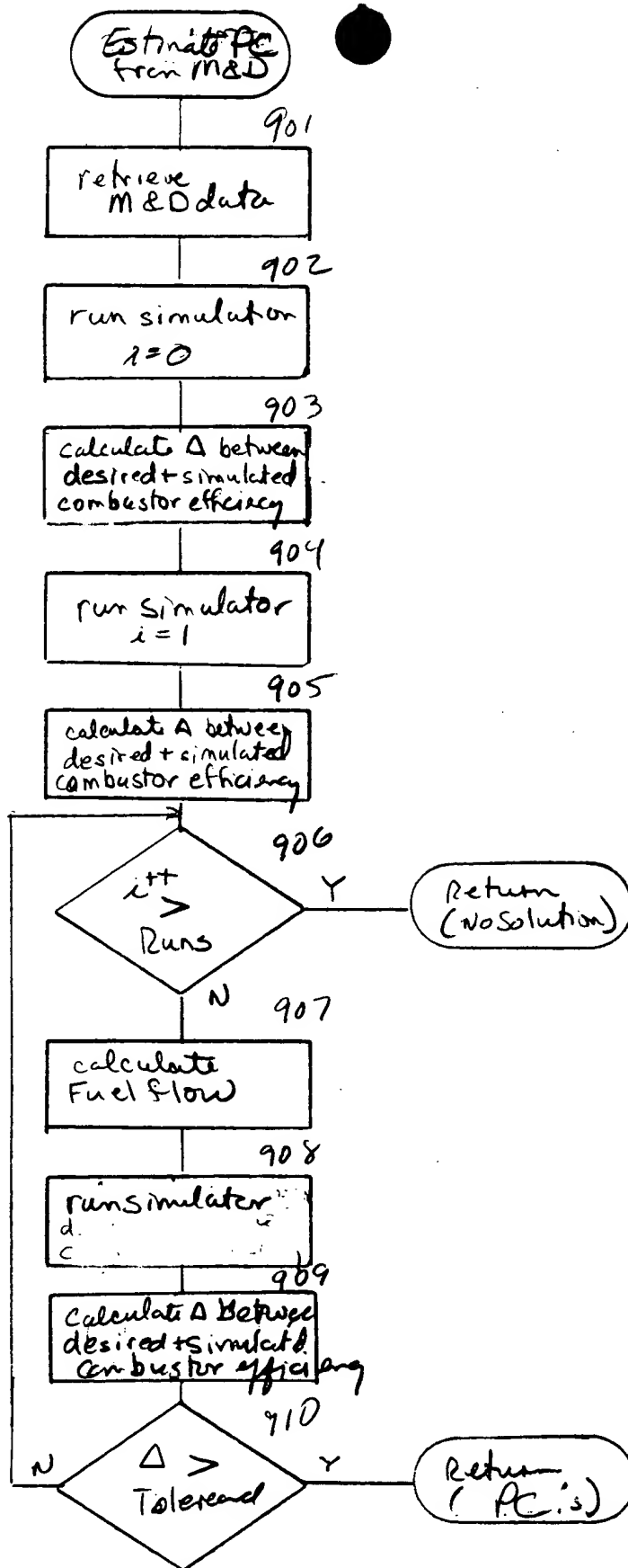


Fig 9

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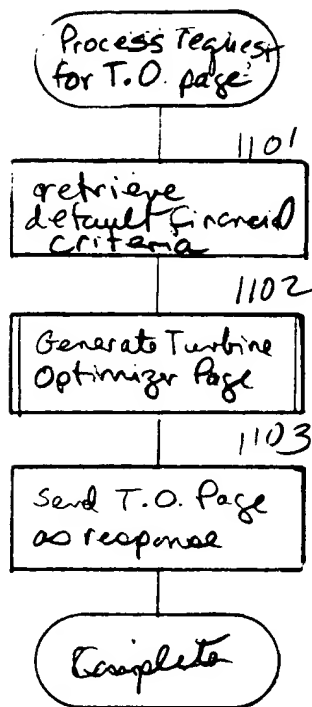


Fig 11

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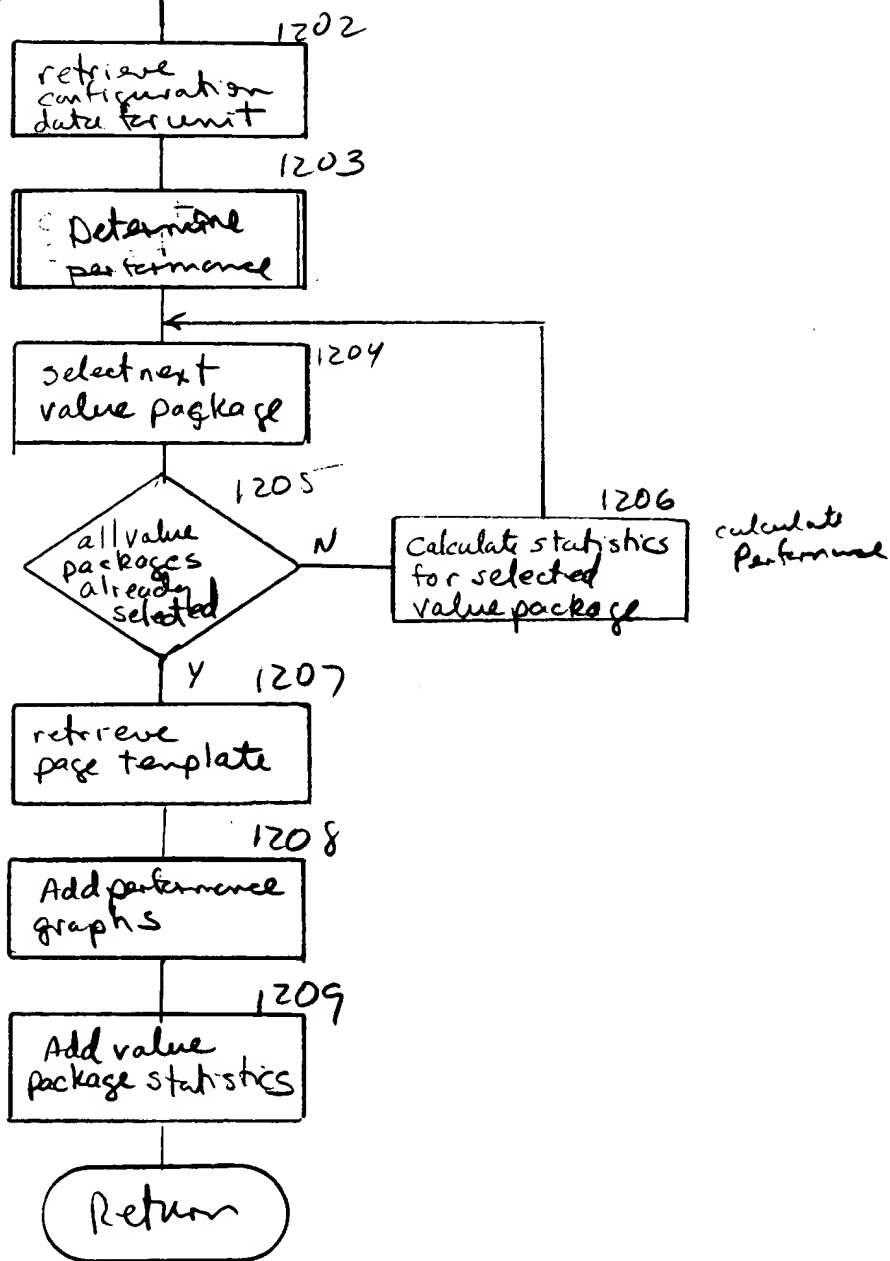


Fig 12

